

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-20. (Canceled)

21. (Previously presented) A method for simulating progression of human prostate cancer from primary tumor formation to micrometastasis or macrometastasis in an animal model, comprising:

- a. providing an immune deficient mouse comprising a human prostate cancer xenograft of locally advanced or metastatic prostate cancer tissue, or a cell suspension thereof implanted in the mouse;
- b. allowing the xenograft to grow for a time sufficient to permit the detection of prostate cancer cells within the implant site in the mouse; and,
- c. allowing the xenograft to grow for an additional time sufficient to permit the detection of prostate cancer cells external to the implant site in the mouse, thereby simulating the progression of human prostate cancer from primary tumor formation to micrometastasis or macrometastasis in the animal model.

22. (Currently amended) The method of claim ~~2~~ 21, further comprising a step:

- d. detecting prostate cancer cells external to the implant site.

23. (Currently amended) The method of claim ~~3~~ 22, wherein the detecting step is effected on peripheral blood of the mouse.

24. (Currently amended) The method of claim ~~3~~ 22, wherein the detecting step is effected on bone marrow of the mouse.

25. (Currently amended) The method of claim ~~3~~ 22, wherein the detecting step is effected on lymph node tissue of the mouse.

26. (Currently amended) The method of claim ~~3~~ 22, wherein the detecting step is effected on bone tissue of the mouse.

27. (Currently amended) The method of claim ~~2~~ 21, wherein the providing step provides an immune deficient mouse comprising a human prostate cancer xenograft implanted subcutaneously.

28. (Currently amended) The method of claim ~~2~~ 21, wherein the providing step provides an immune deficient mouse comprising a human prostate cancer xenograft implanted within the prostate of the mouse.

29. (Currently amended) The method of claim ~~2~~ 21, wherein the providing step provides an immune deficient mouse comprising a human prostate cancer xenograft implanted within a bone of the mouse.

30. (Previously presented) A method of stimulating the progression of osteoblastic bone metastasis of human prostate cancer by use of a mouse model, said method comprising:

a. providing an immune deficient mouse comprising human prostate cancer cells from locally advanced or metastatic human prostate cancer tissue or a cell suspension thereof in a bone marrow cavity of the mouse, subcutaneously; or within the prostate of the mouse; and,

b. allowing the human cancer cells to form an osteoblastic bone lesion, thereby simulating progression of osteoblastic bone metastasis of human prostate cancer in the mouse.

31. (Currently amended) The method of claim ~~11~~ 30, wherein the providing step provides human prostate cancer cells from a prostate cancer xenograft, wherein the xenograft is from another immune deficient mouse in which was implanted locally advanced or metastatic human prostate cancer tissue or a cell suspension thereof.

32. (Currently amended) The method of claim ~~11~~ 30, wherein the providing step comprises providing the human prostate cancer cells subcutaneously in the mouse.

33. (Currently amended) The method of claim ~~11~~ 30, wherein the injecting step comprises providing the human prostate cancer cells within the prostate of the mouse.

34. (Currently amended) The method of claim ~~11~~ 30, wherein the providing step comprises providing the human prostate cancer cells into a bone marrow cavity of the mouse.